

**Notice of Allowability**

Application No.

10/729,111

Applicant(s)

STARR ET AL.

Examiner

Art Unit

Robert W. Wilson

2661

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/2/05.
2. ☒ The allowed claim(s) is/are 1,2,6-9, 5, 3-4, 10-18, & 25-29 (Re#1-23).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**BOB PHUNKULH**  
**PRIMARY EXAMINER**

***Allowable Subject Matter***

1. The invention is directed to a TCP offload engine which is capable of offloading a host. The engine has a first memory stores and simultaneously outputs at least two TCP values associated with a TCP connection wherein the list is at least two TCP state values are taken from the group consisting of: a receive packet sequence limit, an expected receive packet sequence number, a transmit sequence limit, a transmit acknowledge number, and a transmit sequence number which the examiner interprets as dynamic session values.

A second memory that stores and simultaneously outputs at least two packet header values of a packet communicated over the TCP connection wherein at least two packet header values are taken from the group consisting of: a receive packet sequence number, a packet payload size, a packet acknowledge number, and a packet transmit window value which again the examiner interprets as dynamic session values.

Combinatorial logic that receives said at least two TCP state values and said at least two packet header values and generates therefrom a flush detect signal indicative of whether an error condition has occurred, the two TCP state values and the two packet header values being supplied to the combinatorial logic simultaneously.

The closest prior art is Jolitz (Patent Publication No.: US2001/0025315 A1)

Jolitz teaches: a network accelerator or a TCP offload engine. The network accelerator has a Prototype Register (1<sup>st</sup> memory) which stores TCP header values which are static session values and RX register 152 (2<sup>nd</sup> memory) which stores dynamic header values and a header matcher which compares. Jolitz does not teach a 1<sup>st</sup> memory which stores dynamic session values.

The closest prior art Jolitz does not anticipate or render obvious the following claim limitations:

“first memory stores and simultaneously outputs at least two TCP values associated with a TCP connection wherein the list is at least two TCP state values are taken from the group consisting of: a receive packet sequence limit, an expected receive packet sequence number, a transmit sequence limit, a transmit acknowledge number, and a transmit sequence number which the examiner interprets as dynamic session values” as claimed in claim 1,2,5,10, 11, 12,15, 17, 18, & 25.

In addition:

Claims 6-8 and 9 are allowed because they depend upon claim 2.

Claims 3-4 are allowed because they depend upon claim 5.

Claims 13-14 are allowed because they depend upon claim 12.

Claim 16 is allowed because it depends upon claim 15

Claims 26-29 are allowed because they depend upon claim 25.

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***Conclusion***

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert W. Wilson whose telephone number is 571/272-3075. The examiner can normally be reached on M-F (8:00-4:30).

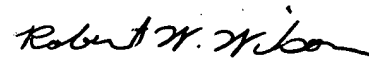
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on 571/272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**BOB PHUNKULH  
PRIMARY EXAMINER**

RWW  
9/16/05



Robert W Wilson  
Examiner  
Art Unit 2661